

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 170154.401C1	APPLICATION NO. 10/634,874
	APPLICANTS Babak Habibi et al.	
	FILING DATE August 6, 2003	GROUP ART UNIT 3664

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,011,437	03/08/77	Hohn	235	151.11	
	AB	4,187,454	02/05/80	Ito et al.	318	568	
	AC	4,294,544	10/13/81	Altschuler et al.	356	376	
	AD	4,523,809	06/18/85	Taboada et al.	350	163	
	AE	4,687,325	08/18/87	Corby, Jr.	356	1	
	AF	4,791,482	12/13/88	Barry et al.	358	107	
	AG	4,879,664	11/07/89	Suyama et al.	364	518	
	AH	4,985,846	01/15/91	Fallon	364	513	
	AI	5,160,977	11/03/92	Utsumi	356	376	
	AJ	5,208,763	05/04/93	Hong et al.	364	551.02	
	AK	5,325,468	06/28/94	Terasaki et al.	395	97	
	AL	5,446,835	08/29/95	Iida et al.	395	133	
	AM	5,461,478	10/24/95	Sakakibara et al.	356	375	
	AN	5,499,306	03/12/96	Sasaki et al.	382	291	
	AO	5,521,830	05/28/96	Saito	364	474.34	
	AP	5,568,593	10/22/96	Demarest et al.	395	82	
	AQ	5,608,818	03/04/97	Chini et al.	382	153	
	AR	5,715,166	02/03/98	Besl et al.	364	474.24	
	AS	5,745,523	04/28/98	Dent et al.	375	216	
	AT	5,784,282	07/21/98	Abitbol et al.	364	474.28	
	AU	5,802,201	09/01/98	Nayar et al.	382	153	
	AV	5,809,006	09/15/98	Davis et al.	369	275.4	
	AW	5,870,527	02/09/99	Fujikawa et al.	395	80	

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. 170154.401C1		APPLICATION NO. 10/634,874	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANTS Babak Habibi et al.			
				FILING DATE August 6, 2003		GROUP ART UNIT 3664	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,974,169	10/26/99	Bachelder	382	151	
	AB	6,004,016	12/21/99	Spector	364	167.02	
	AC	6,064,759	05/16/00	Buckley et al.	382	154	
	AD	6,278,906	08/21/01	Piepmeier et al.	700	250	
	AE	6,392,744	05/21/02	Holec	356	4.03	
	AF	6,463,358	10/08/02	Watanabe et al.	700	253	
	AG	6,490,369	12/03/02	Beiman	382	153	
	AH	6,516,092	02/04/03	Bachelder et al.	382	181	
	AI	6,529,627	03/04/03	Callari et al.	382	154	
	AJ	6,546,127	04/08/03	Seong et al.	382	152	
	AK	6,549,288	04/15/03	Migdal et al.	356	603	
	AL	6,580,971	06/17/03	Bunn et al.	700	259	
	AM	6,721,444	04/13/04	Gu et al.	382	154	
	AN	6,724,930	04/20/04	Kosaka et al.	382	154	
	AO	6,741,363	05/25/04	Kaupert	356	602	
	AP	6,748,104	06/08/04	Bachelder et al.	382	151	
	AQ	6,836,702	12/28/04	Brogårdh et al.	700	245	
	AR	6,970,802	11/29/05	Ban et al.	702	153	
	AS	7,006,236	02/28/06	Tomasi et al.	356	614	
	AT	7,009,717	03/07/06	Van Coppenolle et al.	356	603	
	AU	7,084,900	08/01/06	Watanabe et al.	348	94	
	AV	7,177,459	02/13/07	Watanabe et al.	382	151	
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant							

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 170154.401C1	APPLICATION NO. 10/634,874
	APPLICANTS Babak Habibi et al.	
	FILING DATE August 6, 2003	GROUP ART UNIT 3664

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	2002/0019198	02/14/02	Kamono	451	41	
	AB	2002/0156541	10/24/02	Yutkowitz	700	28	
	AC	2003/0182013	09/25/03	Moreas et al.	700	145	
	AD	2004/0037689	02/26/04	Watanabe et al.	414	730	
	AE	2004/0041808	03/04/04	Ban et al.	345	419	
	AF	2004/0073336	04/15/04	Huang et al.	700	245	
	AG	2004/0081352	04/29/04	Ban et al.	382	154	
	AH	2004/0193321	09/30/04	Anfindsen et al.	700	257	
	AI	2005/0002555	01/06/05	Kumiya et al.	382	153	
	AJ	2005/0097021	05/05/05	Behr et al.	705	36	
	AK	2005/0126833	06/16/05	Takenaka et al.	180	8.1	
	AL	2005/0233816	10/20/05	Nishino et al.	473	131	
	AM	2005/0246053	11/03/05	Endou et al.	700	188	
	AN	2006/0025874	02/02/06	Huffington et al.	700	44	
	AO	2006/0088203	04/27/06	Boca et al.	382	153	
	AP	2006/0119835	06/08/06	Rastegar et al.	356	28	
	AQ	2006/0210112	09/21/06	Cohen et al.	382	103	
	AR	2007/0073439	03/29/07	Habibi et al.	700	213	
	AS	11/754,218		Habibi et al.			05/25/07
	AT	11/779,812		Habibi			07/18/07
	AU	11/833,187		Boca et al.			08/02/07
	AV	11/857,680		Boca et al.			09/19/07
	AW	60/719,765		Habibi et al.			09/23/05

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 170154.401C1	APPLICATION NO. 10/634,874
	APPLICANTS Babak Habibi et al.	
	FILING DATE August 6, 2003	GROUP ART UNIT 3664

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	60/808,903		Habibi et al.			05/26/06
	AB	60/832,356		Habibi			07/20/06
	AC	60/845,932		Boca et al.			09/19/06
	AD	60/875,073		Beis et al.			12/16/06

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AE	1 043 126	10/11/00	EP		
	AF	1 043 642	10/11/00	EP		
	AG	1 043 689	10/11/00	EP		
	AH	1 484 716	12/08/04	EP		
	AI	102 36 040	02/19/04	DE (+ abstract in English)		
	AJ	2000024973	01/25/00	JP (+ abstract in English)		
	AK	2005/074653	08/18/05	WO		
	AL	63288683	11/25/88	JP (+ abstract in English)		
	AM					
	AN					
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 170154.401C1	APPLICATION NO. 10/634,874
		APPLICANTS Babak Habibi et al.	
		FILING DATE August 6, 2003	GROUP ART UNIT 3664
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
	AA	Aloimonos, J., et al., "Active Vision," <i>IEEE</i> , pp. 35-54, 1987.	
	AB	Anonymous, "Precise Length Measurement at VSM (Vereinigte Schmirgel-Und Maschinen-Fabriken AG)," <i>News of the Astech GMBH 2001(4)</i> , December 31, 2001.	
	AC	Bajcsy, R., "Active Perception," <i>Proc. IEEE</i> 76(8):996-1005, 1988	
	AD	Bakhtari, A., et al., "Active-Vision Based Multi-Sensor Surveillance – An Implementation," <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 36(5):668-680, September 2006.	
	AE	Borotschnig, H., et al., "Active Object Recognition in Parametric Eigenspace," <i>Proc. 9th British Machine Vision Conference</i> , pp. 629-638, 1998.	
	AF	Bouthemy, P., "A Maximum Likelihood Framework for Determining Moving Edges," <i>IEEE Trans. Pattern Analysis and Machine Intelligence</i> 11(5):499-511, 1989.	
	AG	Brown, M., et al., "3D Model Acquisition by Tracking 2D Wireframes," <i>Proc. 11th British Machine Vision Conference</i> , pp. 656-665, 2000.	
	AH	Callari, F., et al., "Active Recognition: Using Uncertainty to Reduce Ambiguity," <i>Proc. 13th International Conference on Pattern Recognition</i> , pp. 925-929, 1996.	
	AI	Chaumette, F., "Potential Problems of Stability and Convergence in Image-Based and Position-Based Visual Servoing," in D. Kriegman, G. Hager and S. Morse, editors, <i>The Confluence of Vision and Control, Vol. 237 of Lecture Notes in Control and Information Sciences</i> , pp. 66-78, Springer-Verlag, 1998.	
	AJ	Chaumette, F., et al., "Structure from Controlled Motion," <i>IEEE Trans. Pattern Analysis and Machine Intelligence</i> 18(5):492-504, May 1996.	
	AK	Constantinescu, D., et al., "Smooth and Time-Optimal Trajectory Planning for Industrial Manipulators along Specified Paths," <i>Journal of Robotic Systems</i> 17(5):233-249, 2000.	
	AL	Corke, P.I., et al., "A New Partitioned Approach to Image-Based Visual Servo Control," <i>IEEE Trans. On Robotics and Automation</i> 17(4):507-515, August 2001.	
	AM	Deguchi, K., "Optimal Motion Control for Image-Based Visual Servoing by Decoupling Translation and Rotation," in <i>Proc. Int. Conf. Intelligent Robots and Systems</i> , pp.705-711, October 1998.	
	AN	Drummond, T., et al., "Real-time Tracking of Complex Structures with On-line Camera Calibration," <i>Proceedings of British Machine Vision Conference</i> , pp. 574-583, 1999.	
EXAMINER		DATE CONSIDERED	
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 170154.401C1	APPLICATION NO. 10/634,874
		APPLICANTS Babak Habibi et al.	
		FILING DATE August 6, 2003	GROUP ART UNIT 3664
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
	AA	Eriksen, R.D., et al., "Classification and pose estimation of unconstrained 3D objects," <i>34th International Symposium on Robotics</i> , June 2-5, 2003, 7 pages.	
	AB	Hartley et al., <i>Multiple View Geometry in Computer Vision</i> , Cambridge University Press, Cambridge, 2000	
	AC	Holliday et al., "Demonstration of Automated Robotic Workcell for Hazardous Waste Characterization," <i>Proceedings of the International Conference on Robotics and Automation</i> 3(10):788-794, May 2, 1993.	
	AD	Hutchinson, S.A., et al., "Planning Sensing Strategies in a Robot Work Cell with Multi-Sensor Capabilities," <i>IEEE Trans. Robotics and Automation</i> 5(6):765-783, 1989	
	AE	Hutchison et al., "A Tutorial on Visual Servo Control," <i>IEEE Transactions on Robotics and Automation</i> 12(5), October 1996	
	AF	Lowe, D.G., "Robust Model-based Motion Tracking Through the Integration of Search and Estimation," <i>International Journal of Computer Vision</i> 8(2):113-122, 1992.	
	AG	Macfarlane, S., et al., "Jerk-Bounded Manipulator Trajectory Planning: Design for Real-Time Applications," <i>IEEE Trans. Robotics and Automation</i> 19(1):42-52, 2003.	
	AH	Marjanovic et al., "Self-Taught Visually-Guided Pointing for a Humanoid Robot," XP-002220054, pp. 35-44, 1996.	
	AI	Miura, J., et al., "Task-Oriented Generation of Visual Sensing Strategies in Assembly Tasks," CMU School of Computer Science Tech Report CMU-CS-95-116, 42 pages, 1995.	
	AJ	Motai, Y., et al., "Concatenate Feature Extraction for Robust 3D Elliptic Object Localization," <i>Proc. Of the 19th ACM Symposium on Applied Computing</i> , pp. 21-28, 2004.	
	AK	Murase, H., et al., "Visual Learning and Recognition of 3-D Objects from Appearance," <i>International Journal of Computer Vision</i> 14(1):5-24, 1995.	
	AL	Naish, M.D., et al., "Coordinated dispatching of proximity sensors for the surveillance of manoeuvring targets," <i>Journal of Robotics and Computer Integrated Manufacturing</i> 19(3):283-299, 2003.	
	AM	Nomura et al., "Integrated Visual Servoing System to Grasp Industrial Parts Moving on Conveyer by Controlling 6D0F Arm," <i>Systems, Man, and Cybernetics, 2000 IEEE International Conference</i> 3:1768-1775, October 2000.	
	AN	Papanikolopoulos et al., "Six Degree-of-Freedom Hand/Eye Visual Tracking with Uncertain Parameters," <i>IEEE Transactions on Robotics and Automation</i> 11(5):725-732, October 1995.	
EXAMINER		DATE CONSIDERED	
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.			

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 170154.401C1	APPLICATION NO. 10/634,874
		APPLICANTS Babak Habibi et al.	
		FILING DATE August 6, 2003	GROUP ART UNIT 3664
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
	AA	Sang, T., et al., "Vision Assisted Robotic Tele-training," <i>IEEE International Conference on Mechatronics and Automation</i> , pp. 1288-1293, July 2005.	
	AB	Tarabanis, K.A., et al., "A Survey of Sensor Planning in Computer Vision," <i>IEEE Transactions on Robotics and Automation</i> 11(1):86-104, February 1995.	
	AC	Tarabanis, K.A., et al., "The MVP Sensor Planning System for Robotic Vision Tasks," <i>IEEE Transactions on Robotics and Automation</i> 11(1):72-85, February 1995.	
	AD	Vincze, M., "Robust tracking of ellipses at frame rate," <i>The Journal of Pattern Recognition</i> 34(2):487-498, 2001.	
	AE	Whaite, P., et al., "From Uncertainty to Visual Exploration," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> 13(10):1038-1049, 1991.	
	AF	Wilson et al., "Relative End-Effector Control Using Cartesian Position Based Visual Servoing," <i>IEEE Transactions</i> 12(5):684-696, 1996.	
	AG	Zhou, F., et al., "Complete calibration of a structured light stripe vision sensor through planar target of unknown orientations," <i>Image and Vision Computing</i> 23:59-67, 2005.	
	AH	Office Action for U.S. Application No. 11/183,228, 12 pages, Mail Date 12/06/2006.	
	AI	Amendment filed in U.S. Application No. 11/183,228, 24 pages, Mail Date 04/05/2007.	
	AJ	Office Action for U.S. Application No. 11/183,228, 14 pages, Mail Date 06/08/2007.	
	AK	Amendment filed in U.S. Application No. 11/183,228, 8 pages, Mail Date 09/04/2007.	
	AL		
	AM		
	AN		
	AO		
	AP		
	AQ		
	AR		
	AS		
	AT		
EXAMINER		DATE CONSIDERED	
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.			